

Application No. 10/070,401

Title: GRAPHICAL USER INTERFACE AND METHOD RELATED THERETO

Amendment responsive to Office Action dated: February 25, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (previously presented) A graphical user interface for the monitoring and/or controlling of a computer controlled dairy farm system, or part thereof, by a human user, characterized in that it comprises a computer based graphical and schematic representation of said dairy farm system, or part thereof, where said representation comprises objects, each of which represents a respective part of said dairy farm system, or part thereof, and each having at least one associated physical property, wherein each said at least one physical property associated with the respective object is comprised among physical properties of the respective represented part of said dairy farm system, or part thereof.
2. (previously presented) The graphical user interface as claimed in Claim 1, characterized in that each said at least one physical property which is comprised among the properties of the respective represented part of said dairy farm system, or part thereof, is chosen from the group of spatial location, size, shape, color, direction, movement, amount, rate, frequency and distance from other objects.
3. (previously presented) The graphical user interface as claimed in Claim 1 or 2, characterized in that a relation between a first and a second object of said representation

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comprised among relations between a first and a second part of the dairy farm system, or part thereof, which are represented by said objects.

4. (previously presented) The graphical user interface as claimed in any of Claims 1-3 characterized in that it comprises a schematic representation of an entire dairy farm system, in which case it comprises objects representing parts such as each individual cow, fence, gate or apparatus in the dairy farm system.

5. (previously presented) The graphical user interface as claimed in Claim 4, characterized in that it comprises schematic status indications for at least one of its objects such as for instance if a cow has been milked or not, if a gate is opened or closed, or if an apparatus is in use or not.

6. (previously presented) The graphical user interface as claimed in any of Claims 1-3, characterized in that it comprises a schematic representation of a milking machine, or part thereof, or of a cow, or part thereof.

7. (previously presented) The graphical user interface as claimed in Claim 6, characterized in that it comprises schematic representations of the teats of a cow, or teat cups that are attached to them, by four icons located schematically with longer distance between the icons representing the front teats or teat cups and a shorter distance between the icons representing the back teats or teat cups.

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8. (previously presented) The graphical user interface as claimed in Claim 7, characterized in that the schematic representations of the teats or teat cups are associated with respective controls for start milking or with respective status indications indicating milk yield during milking.

9. (previously presented) The graphical user interface as claimed in Claim 7 or 8, characterized in that it comprises schematic representations of the teat cups as detached at spatial locations, which schematically correspond to the respective spatial locations in the milking machine, e.g. along a line.

10. (previously presented) The graphical user interface as claimed in Claim 9, characterized in that each of the four icons schematically representing the teats of a cow, or teat cups that are attached to them, has a visual characteristic in common with the respective associated schematic representation of the teat cup as detached, e.g. along a line, in order to map each detached teat cup to its respective attached position.

11. (previously presented) The graphical user interface as claimed in any of Claims 6—10, characterized in that it comprises schematic representations of an entry gate and or an exit gate, respectively, of said milking machine, at spatial locations corresponding schematically to the respective locations in the milking machine.

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12. (previously presented) The graphical user interface as claimed in Claim 11, characterized in that the schematic representations of the entry gate and of the exit gate are associated with respective controls for opening and closing the respective gate or with respective status indications indicating whether the respective gate is opened or closed.

13. (previously presented) The graphical user interface as claimed in any of Claims 6—12, characterized in that it comprises schematic representations of a rear plate and of a manger, respectively, of said milking machine.

14. (previously presented) The graphical user interface as claimed in Claim 13, characterized in that the schematic representations of the rear plate and of the manger are associated with respective controls for positioning the rear plate and the manger or with respective status indications indicating the location of the rear plate and the manger.

15. (previously presented) An automatic milking machine, characterized in that it comprises a graphical user interface as claimed in any of Claims 1—14.

16. (previously presented) A method for providing a graphical user interface for the monitoring and/or controlling of a computer controlled dairy farm system, or part thereof, by a human user, characterized by displaying a computer based graphical and schematic representation of said dairy farm system, or part thereof, where said representation comprises objects, each of which represents a respective part of said dairy farm system, or part thereof, and each having at least one associated physical property, wherein each said at least one physical property associated with the

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respective object is comprised among physical properties of the respective represented part of said dairy farm system, or part thereof.

17. (previously presented) The method as claimed in Claim 16, characterized by choosing each said at least one physical property which is comprised among the properties of the respective represented part of said dairy farm system, or part thereof, from the group of spatial location, size, shape, color, direction, movement, amount, rate, frequency and distance from other objects.

18. (previously presented) The method as claimed in Claim 17, characterized by displaying the computer based graphical and schematic representation of the dairy farm system, or part thereof, where a relation between a first and a second object of said representation is comprised among relations between a first and a second part of the dairy farm system, or part thereof, which are represented by said objects.

19. (previously presented) The method as claimed in any of Claims 16-18, characterized by displaying a schematic representation of a milking machine, or part thereof, or of a cow, or part thereof.

20. (previously presented) The method as claimed in Claim 19, characterized by displaying schematic representations of the teats of a cow, or teat cups that are attached to them, by four icons located schematically with a longer distance between the icons representing the front teats or teat cups and a shorter distance between the icons representing the back teats or teat cups.